



The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

01/06/2012

Allison Callahan  
Assistant District Attorney, Suffolk County

Dear ADA Callahan,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]  
Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan and Peter Piro.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Peter Piro analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".

Annie Dookhan  
Chemist  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6622

## Curriculum Vitae

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**Annie Khan (Dookhan)**

**Education:**

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

**Experience:**

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

\*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs) and Protocols.

\*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

\*Oversee the Quality Control/Quality Assurance program for the Drug Lab.

\*Maintenance and repairs of all analytical instruments.

\*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

\*Qualified as an expert witness in Massachusetts Courts and U.S. District Court.

\*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

\*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

\*Notary Public.

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

\*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department for the Food and Drug Administration.

\*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs).

\*Trained and supervised new chemists and interns for the department.

\*Routine QC testing of products for the FDA.

\*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

\*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

\*Complete testing of chemicals for Vendor Validation Project for the FDA.

\*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

**Additional Training:**

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP training with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS trainings with Agilent Technologies and Restek.

HPLC and LC/MS/MS trainings with Waters Cooperation.

FTIR training with Spectros.

TOC training with MBL and Sievers.

**Association:**

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

## Curriculum Vitae

Peter Piro

### EDUCATION

Boston University

B.A. in Chemistry and Minor in Biology, 1989

### HONORS

Magna Cum Laude, 3.6 GPA

Graduated with Distinction in Chemistry

Valedictorian of the Chemistry Department

### EXPERIENCE

#### Department of Public Health/State Laboratory Institute

Chemist III, II, I/ Assistant Analyst

December 1991-Present

Supervise the operation and maintenance of the Gas Chromatography/Mass Spectrometry Laboratory. Analyze controlled substances for State and Federal law enforcement agencies. Qualified as an expert witness in Massachusetts courts and U.S. District Court.

#### Massachusetts Health Research Institute

Laboratory Technician

September 1990-December 1991

Researched the seasonal and special occurrences of DSP and PSP in shellfish samples harvested from coastal waters and Georges Bank.

### TRAINING AND ORGANIZATIONS

- \* Completed a six-week training course by senior staff within the Department of Public Health Drug Analysis laboratory.
- \* Appointed Assistant Analyst by the Assistant Commissioner of Public Health in February 1991.
- \* Elected as a Regular Member to the Northeastern Association of Forensic Chemists on October 27<sup>th</sup> 1995.
- \* Completed training in Mass Spectrometry given by the Food and Drug Administration/Forensic Chemistry Center on November 2002.
- \* Completed training in Mass Spectrometry Troubleshooting and Maintenance, October 25<sup>th</sup> 2002, at Agilent Technologies.
- \* Notary Public since 1993.

CC #

BOOK #

PAGE #

DRUG RECEIPT

**BostonPolice**

District/Unit

Destruction #

Name &amp; Rank of Submitting Officer

ID #

DEFENDANT'S NAME

ADDRESS  
# STREET

CITY

STATE

Roxbury

MA

Dor.

MA

DRUGS-IMPLEMENTS-AND/OR PARAPHERNALIA

GROSS QUANTITY

ANALYSIS  
NUMBER

COCAINE 7.57g

1 p/b

COCAINE 8.19g

13 p/b

MARIJUANA 6.81g

1 p/b

Received by

ID#

10-11-05

Prelim: COCAINE

No. [REDACTED]

Date Analyzed: 11/8/05

City: BOSTON D.C.U.

Def: [REDACTED]

Am't: Sub: SUB Cont: 1 PB

#TESTED:

Date Rec: 10/11/2005 From: P.O. WM. DONNELLY

Gross Wt: 7.57

# Tests: 6 ASD

Net Weight: 2.96

2 P.P. 2

FINDINGS COCAINE

QUANT:

Prelim: COCAINE

No. [REDACTED]

Date Analyzed: 11/8/05

City: BOSTON D.C.U.

Def: [REDACTED]

Am't: Sub: SUB Cont: 13 PB

#TESTED: 4

Date Rec: 10/11/2005 From: P.O. WM. DONNELLY

Gross Wt: 8.19

# Tests: 24 ASD

Net Weight: 2.80 2.82

ASD

8 P.P. 2

FINDINGS: COCAINE

QUANT:

Prelim: *QW-2-4*

No. [REDACTED] Date Analyzed: 11-07-03

City: BOSTON D.C.U.

Def: [REDACTED]

Am't: Sub: VM Cont: 1 PB

#TESTED:

Date Rec: 10/11/2005 From: P.O. WM. DONNELLY

Gross Wt: 6.81

# Tests: *3 ASD*

Net Weight:

*micro @ macro @  
duq @*

FINDINGS: *marijuana*

QUANT:

# DRUG POWDER ANALYSIS FORM

SAMPLE #



AGENCY

Boston

ANALYST ASD

## PHYSICAL DESCRIPTION:

off white chunky

in 1 pb

gross wt of 1 pb = 3.0613

net wt = 2.9647

Cobalt = -, +

Marquis = -

Froehdes = -

Mecke = -

AuCl = +

TLTA = -, +

MS = + cocaine

PJP

## PRELIMINARY TEST RESULTS

COCAINE

HEROIN

NEGATIVE

OTHER

DATE 11-4-05

## FINAL TEST RESULTS

COCAINE

HEROIN

NEGATIVE

OTHER

DATE: 11-08-05

# DRUG POWDER ANALYSIS FORM

SAMPLE #



AGENCY Boston

ANALYST ASD

## PHYSICAL DESCRIPTION:

off white chunky  
in 13 pbs

gross wt of 13 pbs = 3.1521

similar

gross wt of 4 pbs = 1.1068

4 Cobalt = -, +

4 Marquis = -

4 Froehde = -

4 Mecke = -

4 AuCl = +

4 DTA = -, +

4 ms = + cocaine

PSP

## PRELIMINARY TEST RESULTS

COCAINE

HEROIN

NEGATIVE

OTHER \_\_\_\_\_

DATE 11-4-05

## FINAL TEST RESULTS

COCAINE

HEROIN

NEGATIVE

OTHER \_\_\_\_\_

DATE: 11-8-05



SAMPLE # [REDACTED]No. of samples tested 4

#	GROSS WEIGHT	PACKET WEIGHT	NET WEIGHT	#	GROSS WEIGHT	PACKET WEIGHT	NET WEIGHT
1	0.3231	0.0525	0.2706	26			
2	0.2577	0.0652	0.1925	27			
3	0.2337	0.0682	0.1655	28			
4	0.2909	0.0493	0.2416	29			
5				30			
6				31			
7				32			
8				33			
9				34			
10				35			
11				36			
12				37			
13				38			
14				39			
15				40			
16				41			
17				42			
18				43			
19				44			
20				45			
21				46			
22				47			
23				48			
24				49			
25				50			

AVERAGE WT. OF PACKETS: \_\_\_\_\_

AVERAGE WT. OF POWDER

0.8702 / 4 = 0.2175(13)

GROSS WEIGHT OF PACKETS AND POWDER =

TOTAL WEIGHT OF PACKETS (EST.) =

NET ESTIMATED POWDER WEIGHT =

2.8281

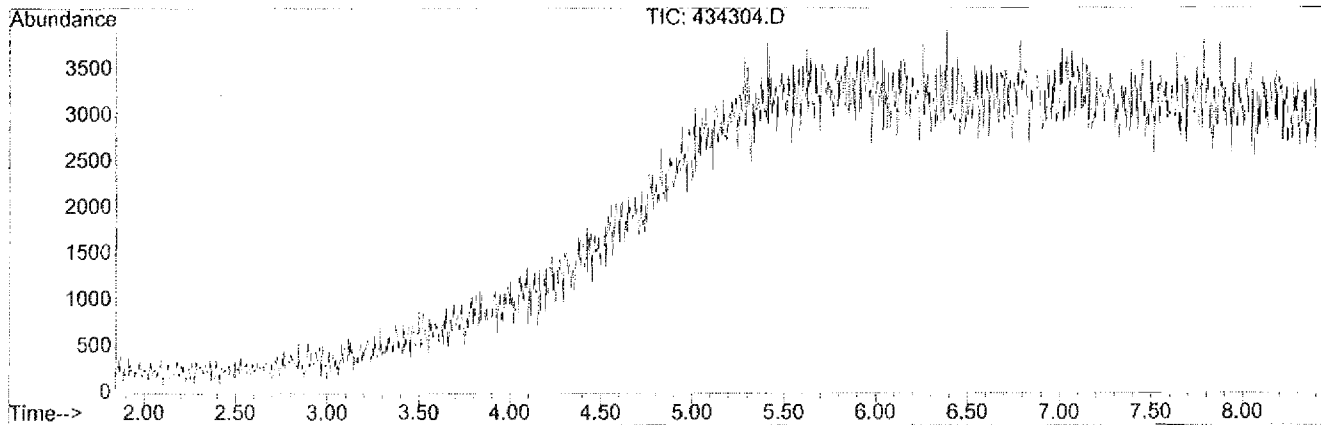
## Area Percent / Library Search Report

✓ PP: 12

1-6-12

## Information from Data File:

File Name : E:\SYSTEM4\11\_07\_05\434304.D  
Operator : ASD  
Date Acquired : 7 Nov 2005 18:48  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE



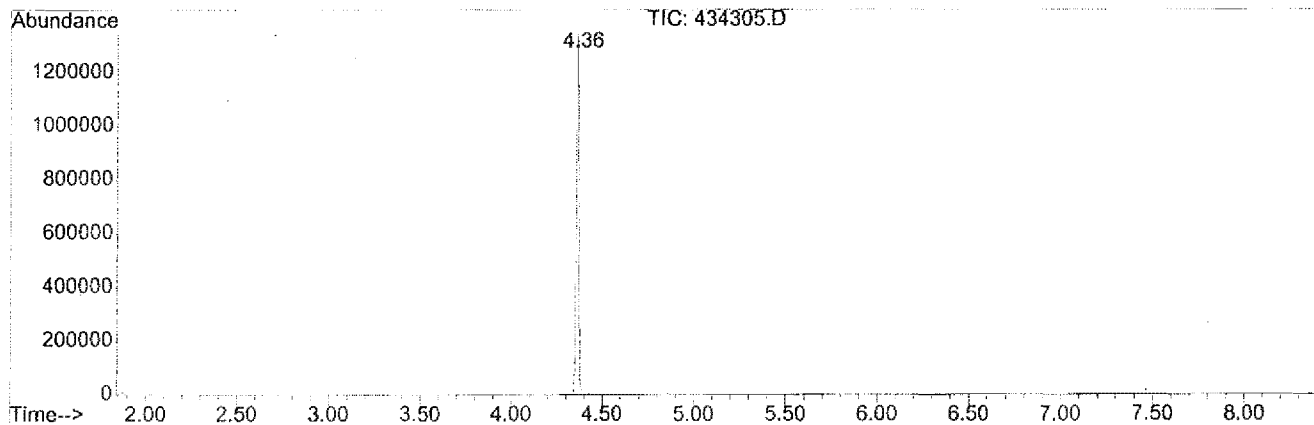
Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

Information from Data File:

File Name : E:\SYSTEM4\11\_07\_05\434305.D  
 Operator : ASD  
 Date Acquired : 7 Nov 2005 19:00  
 Sample Name : COCAINE STD  
 Submitted by :  
 Vial Number : 5  
 AcquisitionMeth: DRUGS  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.361	1244426	100.00	100.00

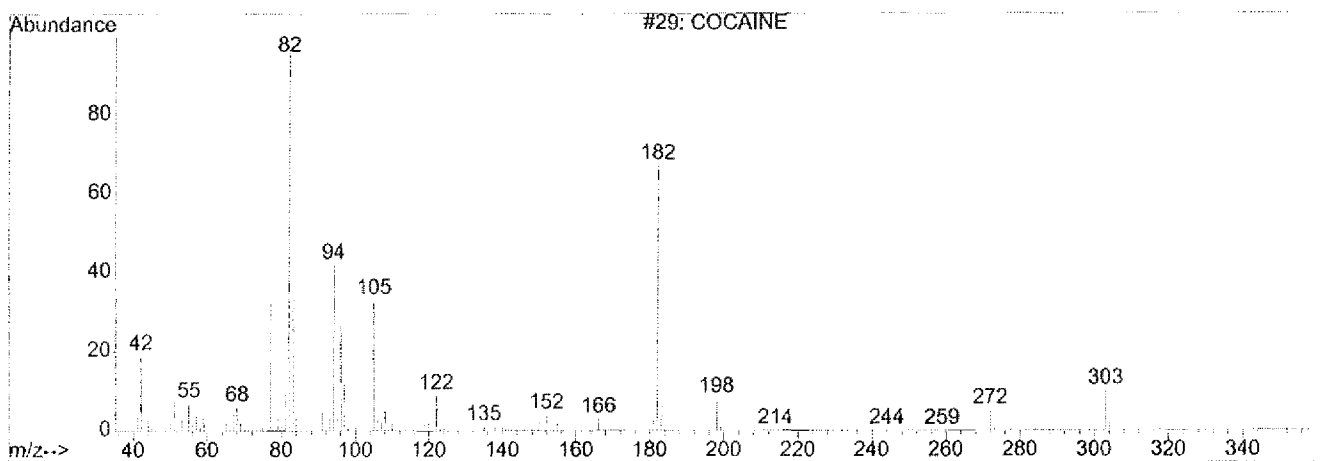
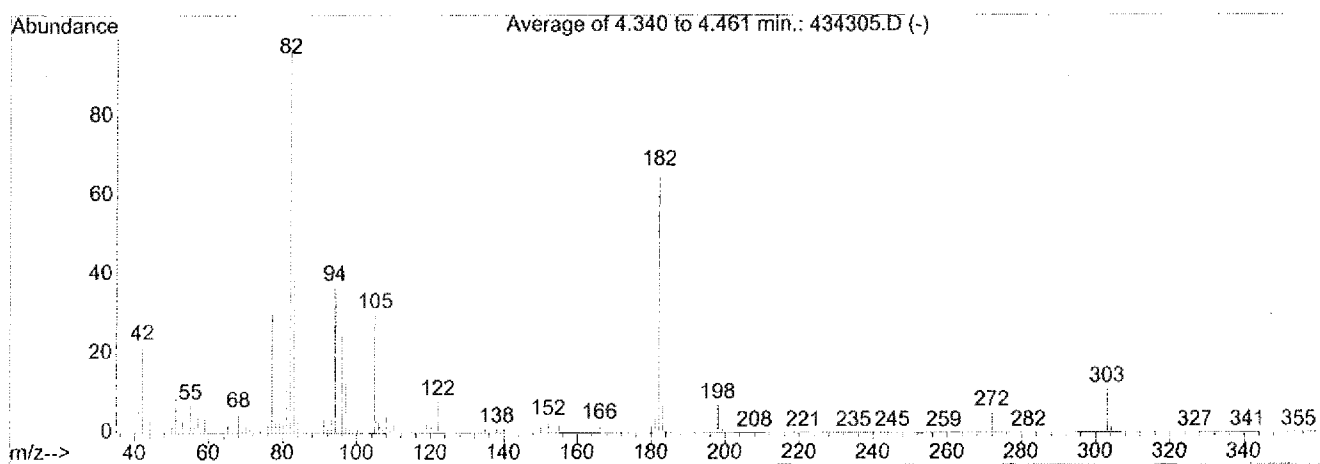
# Area Percent / Library Search Report

**Information from Data File:**

File Name : E:\SYSTEM4\11\_07\_05\434305.D  
 Operator : ASD  
 Date Acquired : 7 Nov 2005 19:00  
 Sample Name : COCAINE STD  
 Submitted by :  
 Vial Number : 5  
 AcquisitionMeth: DRUGS  
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
 C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
 C:\DATABASE\NIST98.L

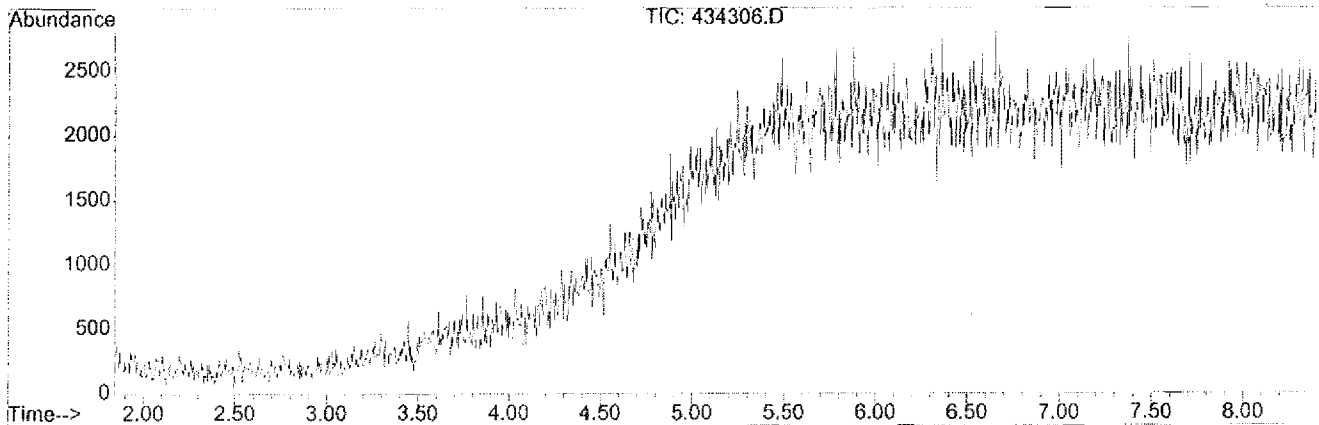
PK#	RT	Library/ID	CAS#	Qual
1	4.36	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



# Area Percent / Library Search Report

Information from Data File:

File Name : E:\SYSTEM4\11\_07\_05\434306.D  
Operator : ASD  
Date Acquired : 7 Nov 2005 19:13  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE



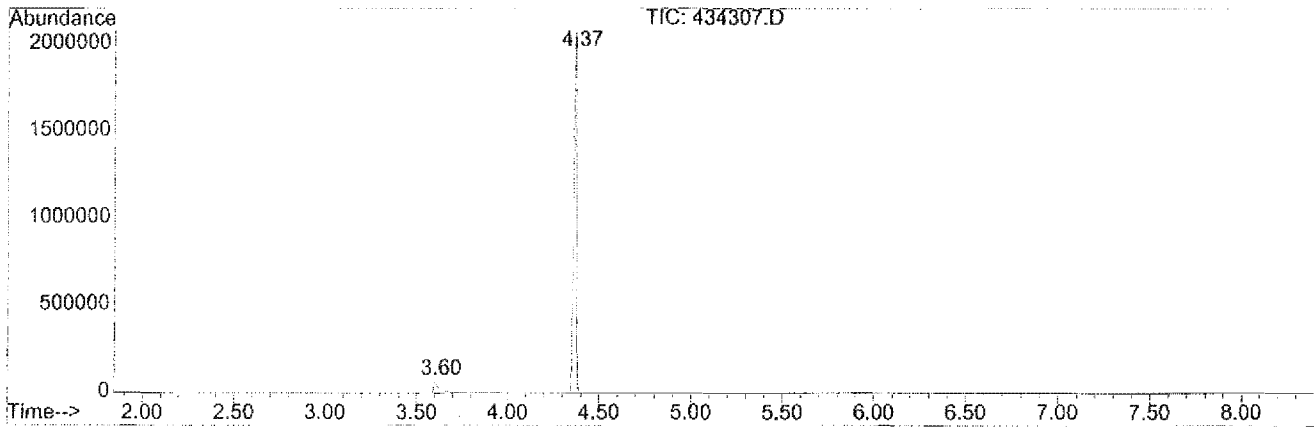
Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

Information from Data File:

File Name : E:\SYSTEM4\11\_07\_05\434307.D  
Operator : ASD  
Date Acquired : 7 Nov 2005 19:25  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 7  
AcquisitionMeth: DRUGS  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
3.603	140617	5.77	6.12
4.369	2296390	94.23	100.00

# Area Percent / Library Search Report

**Information from Data File:**

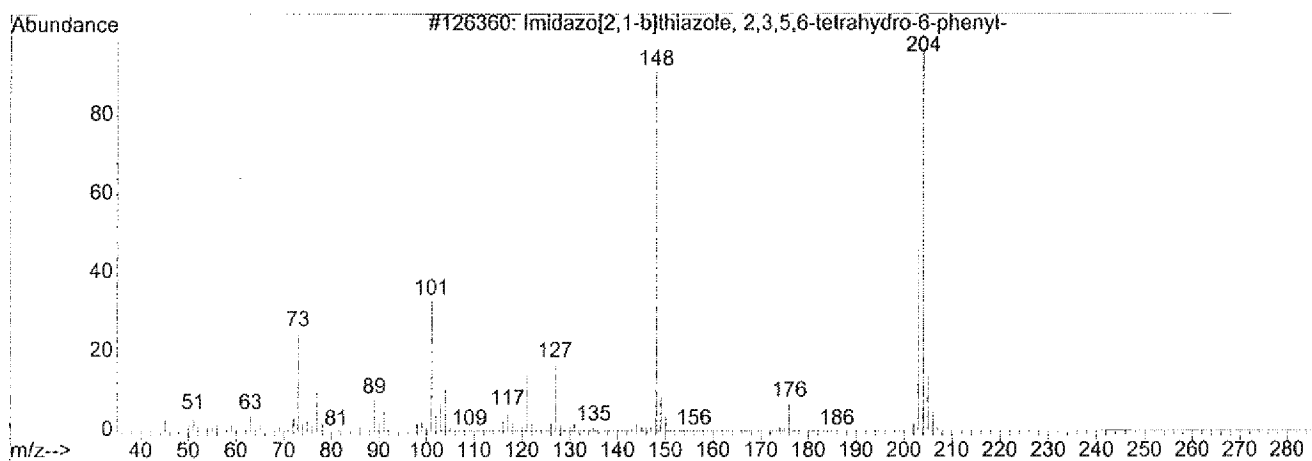
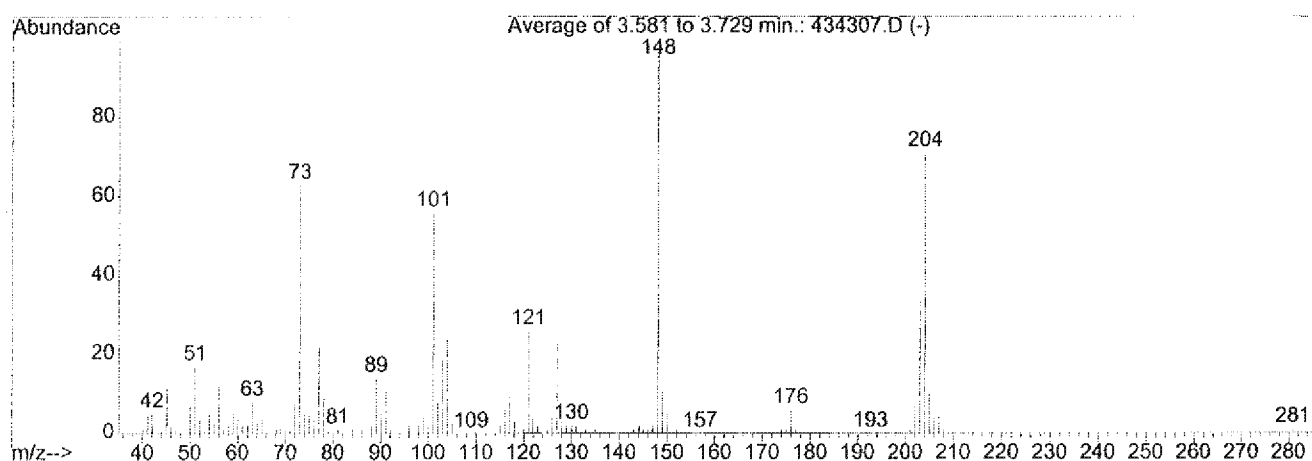
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File Name       : E:\SYSTEM4\11_07_05\434307.D
Operator        : ASD
Date Acquired   : 7 Nov 2005 19:25
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 7
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	3.60	C:\DATABASE\NIST98.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	97
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	97



# Area Percent / Library Search Report

**Information from Data File:**

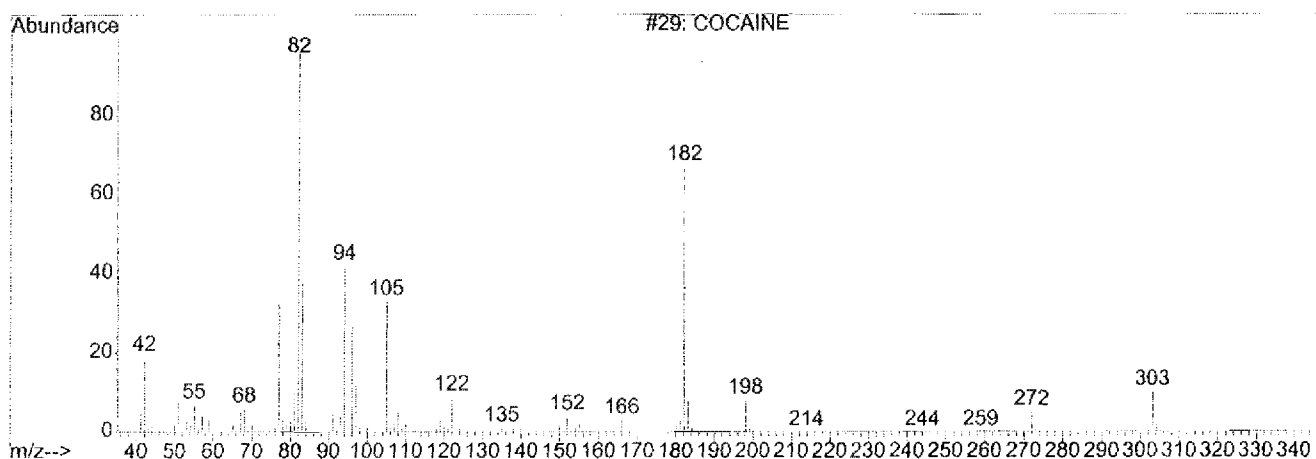
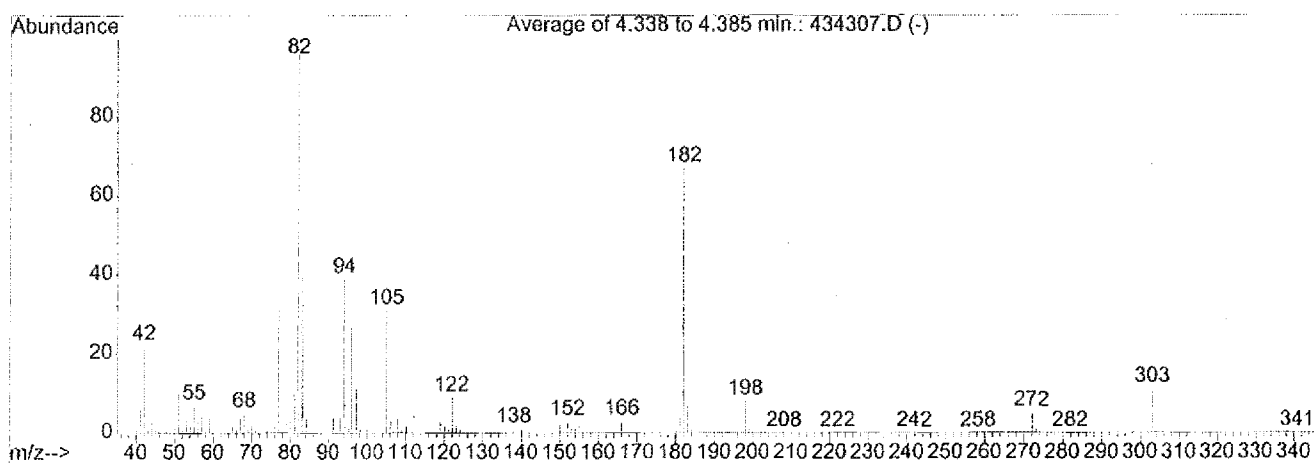
```

File Name       : E:\SYSTEM4\11_07_05\434307.D
Operator        : ASD
Date Acquired   : 7 Nov 2005 19:25
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 7
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
2	4.37	C:\DATABASE\SLI.L COCAINE	000050-36-2	99





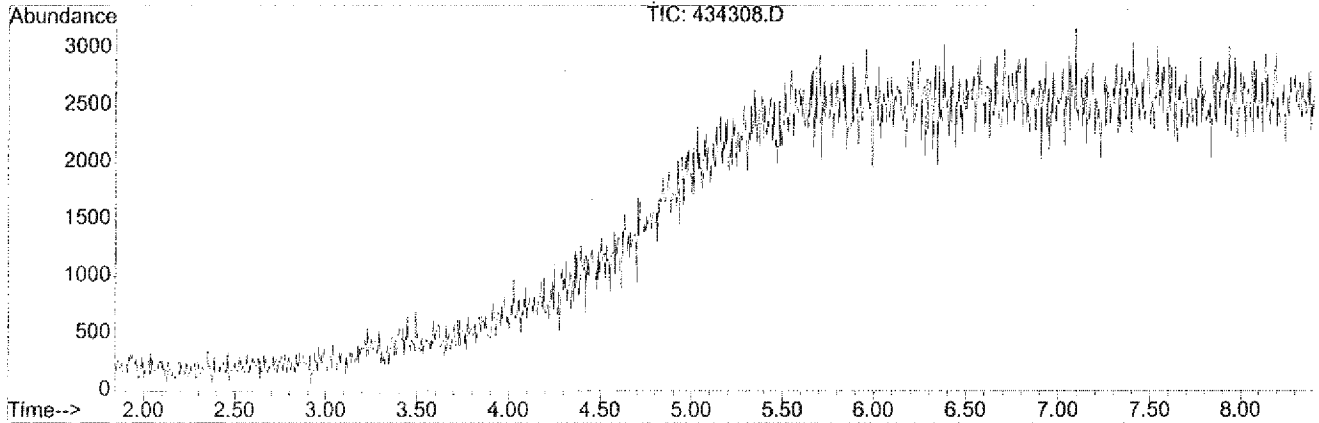
# Area Percent / Library Search Report

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## Information from Data File:

File Name : E:\SYSTEM4\11\_07\_05\434308.D  
Operator : ASD  
Date Acquired : 7 Nov 2005 19:37  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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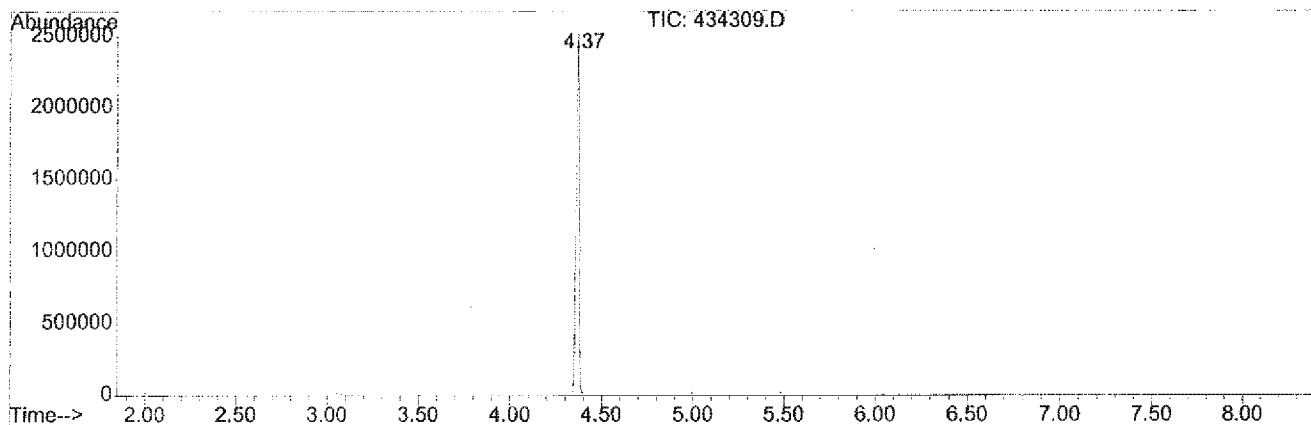
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\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

Information from Data File:

File Name : E:\SYSTEM4\11\_07\_05\434309.D  
 Operator : ASD  
 Date Acquired : 7 Nov 2005 19:49  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 9  
 AcquisitionMeth: DRUGS  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.369	2911755	100.00	100.00

# Area Percent / Library Search Report

**Information from Data File:**

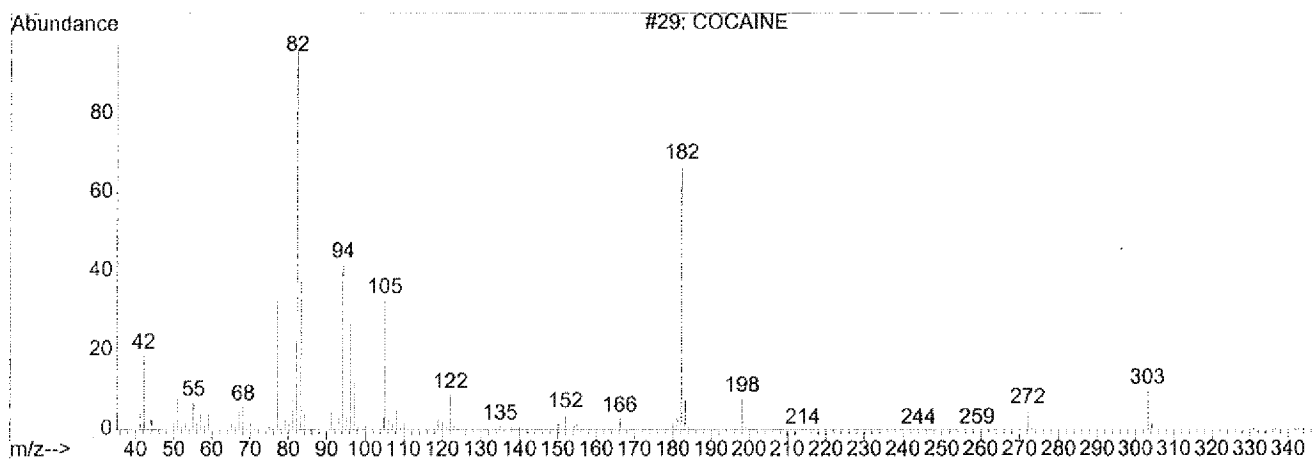
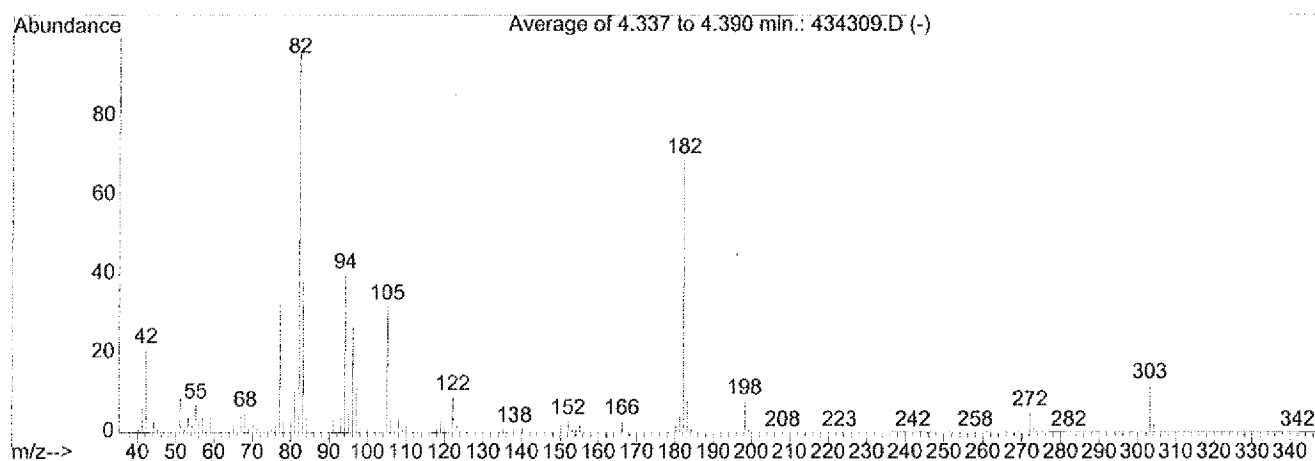
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File Name       : E:\SYSTEM4\11_07_05\434309.D
Operator        : ASD
Date Acquired   : 7 Nov 2005 19:49
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 9
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

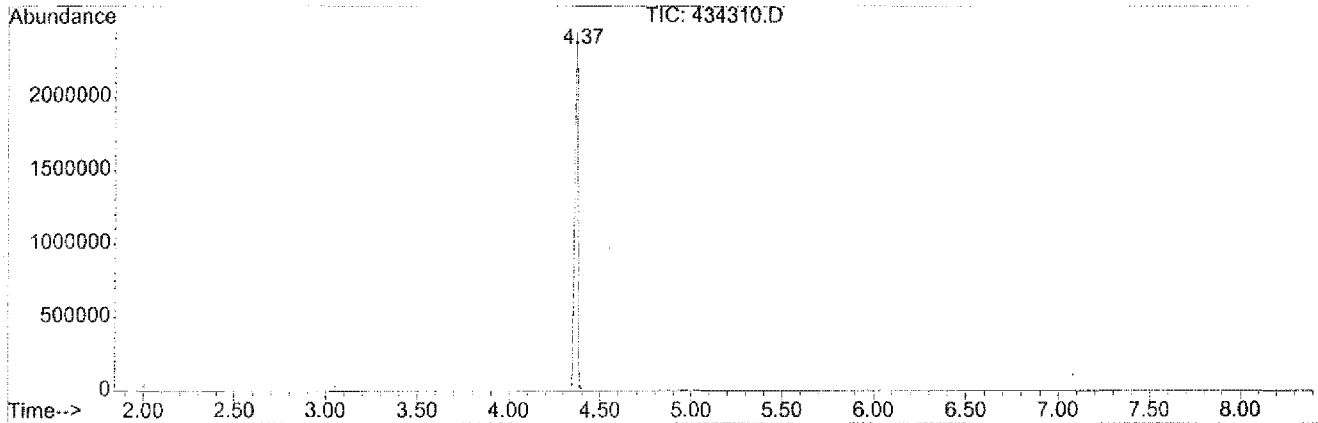
PK#	RT	Library/ID	CAS#	Qual
1	4.37	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



# Area Percent / Library Search Report

Information from Data File:

File Name : E:\SYSTEM4\11\_07\_05\434310.D  
 Operator : ASD  
 Date Acquired : 7 Nov 2005 20:01  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 10  
 AcquisitionMeth: DRUGS  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.372	2902881	100.00	100.00

# Area Percent / Library Search Report

**Information from Data File:**

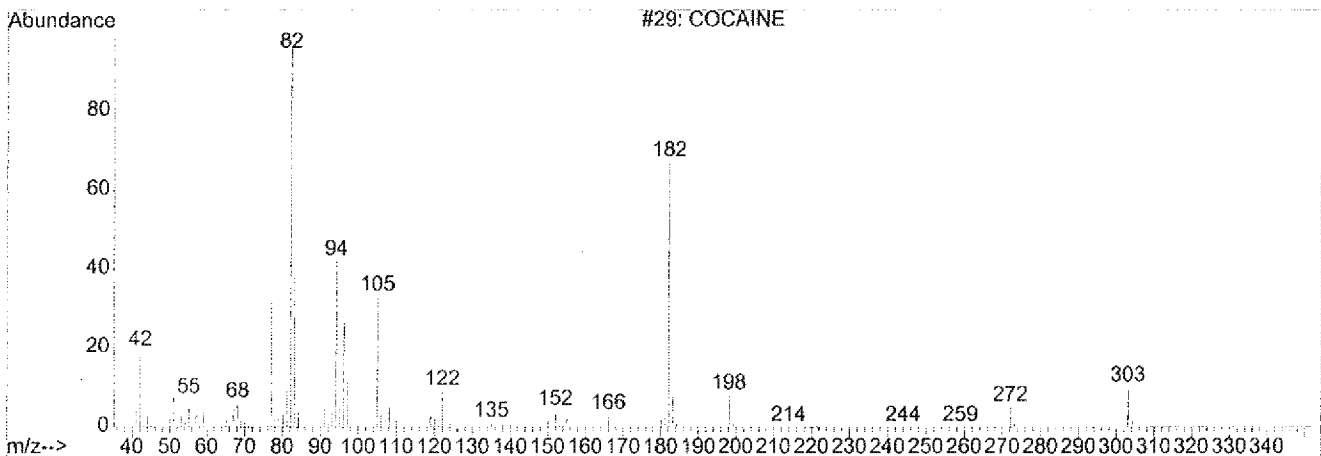
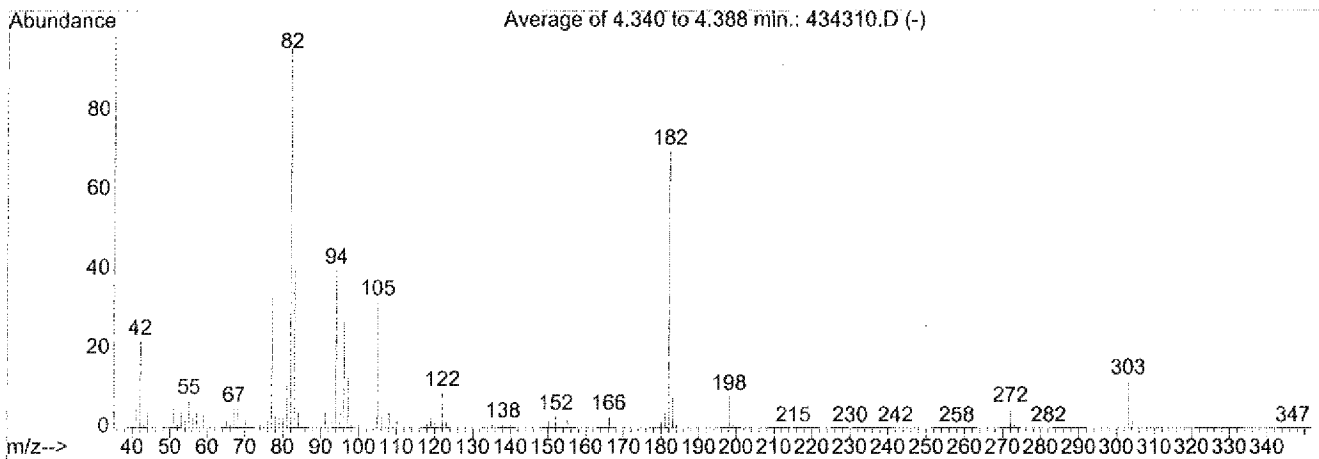
```

File Name       : E:\SYSTEM4\11_07_05\434310.D
Operator        : ASD
Date Acquired   : 7 Nov 2005 20:01
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 10
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	4.37	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



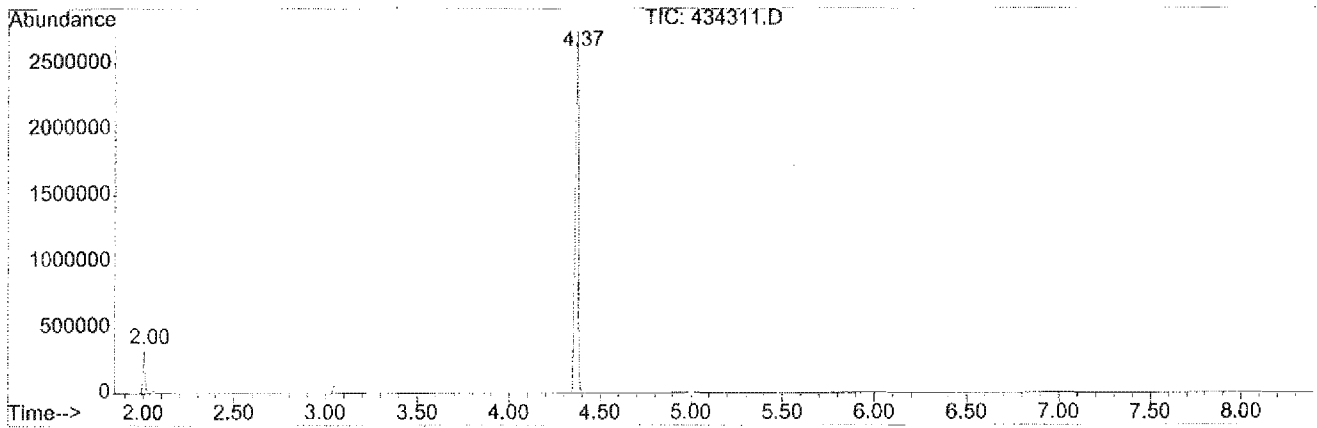
# Area Percent / Library Search Report

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## Information from Data File:

File Name : E:\SYSTEM4\11\_07\_05\434311.D  
Operator : ASD  
Date Acquired : 7 Nov 2005 20:13  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 11  
AcquisitionMeth: DRUGS  
Integrator : RTE

---



Ret. Time	Area	Area %	Ratio %
2.002	269223	7.15	7.70
4.372	3496709	92.85	100.00

---

# Area Percent / Library Search Report

**Information from Data File:**

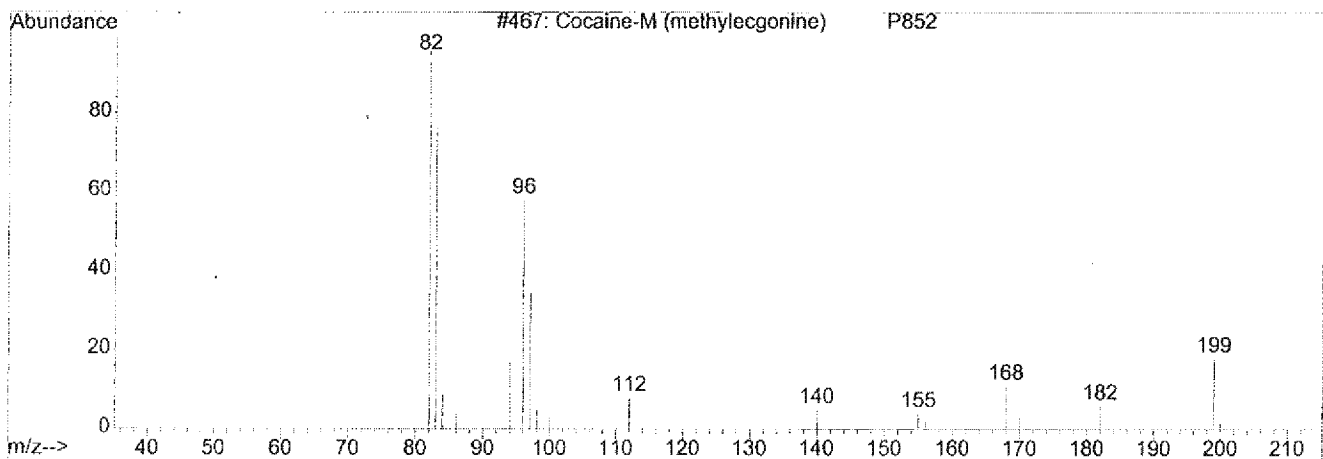
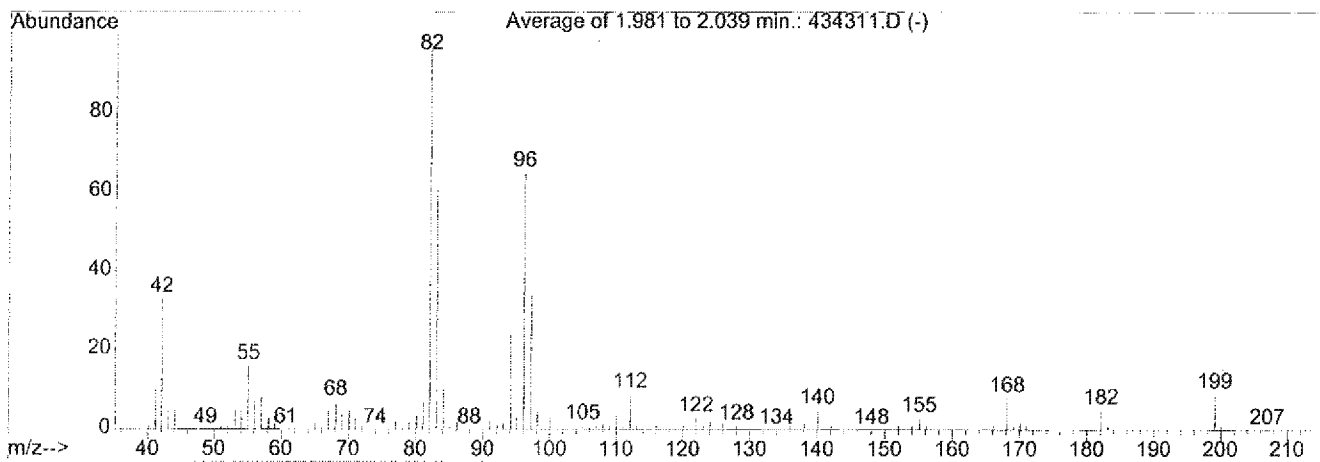
```

File Name       : E:\SYSTEM4\11_07_05\434311.D
Operator        : ASD
Date Acquired   : 7 Nov 2005 20:13
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 11
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	2.00	C:\DATABASE\PMW_TOX2.L		
		Cocaine-M (methylecgonine)	007143-09-1	96
		Cocaine	000050-36-2	38
		Tilidine-M (nor-)	038677-94-0	9



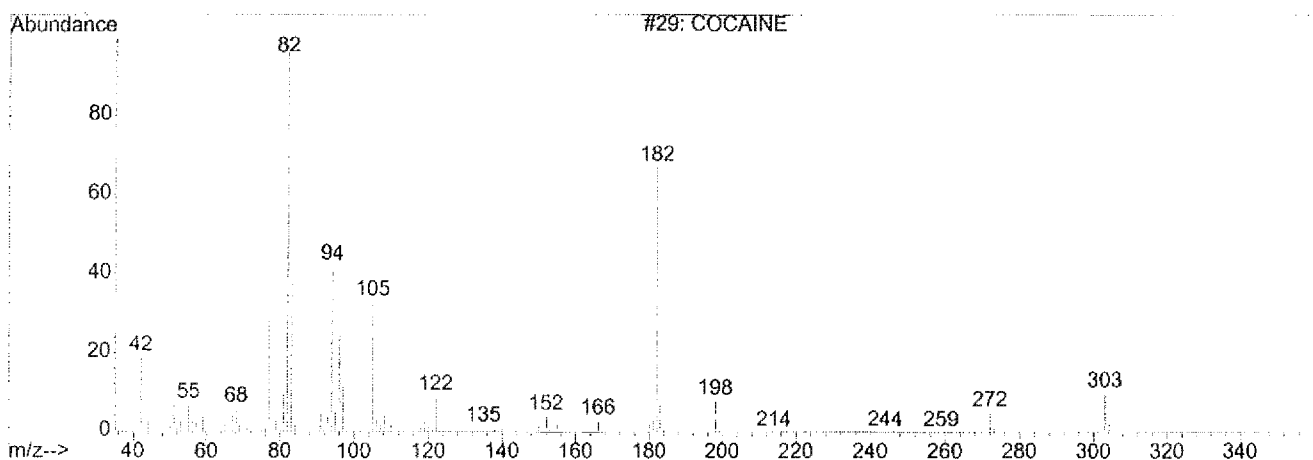
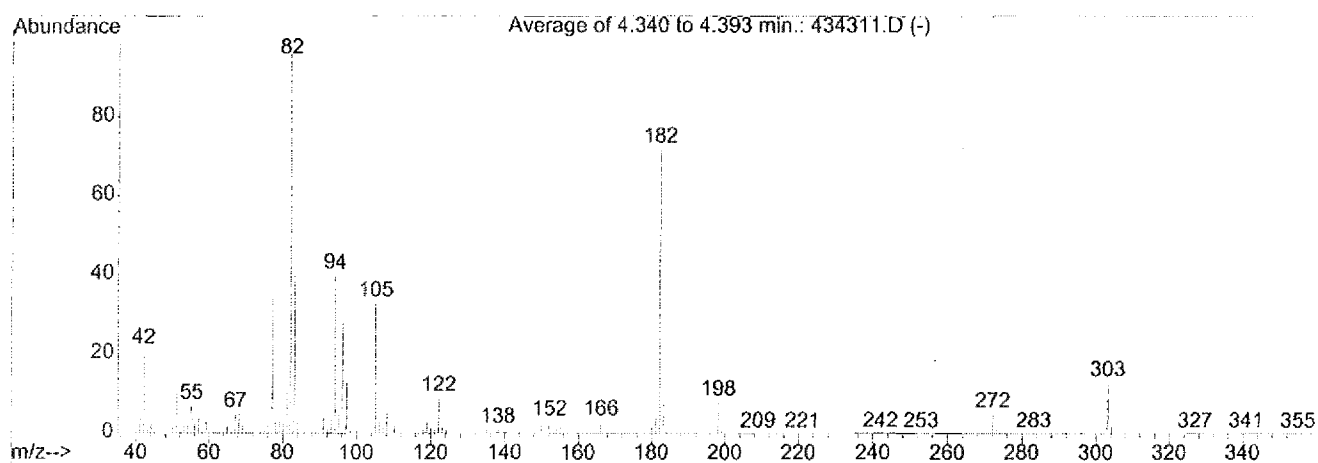
# Area Percent / Library Search Report

**Information from Data File:**

File Name : E:\SYSTEM4\11\_07\_05\434311.D  
 Operator : ASD  
 Date Acquired : 7 Nov 2005 20:13  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 11  
 AcquisitionMeth: DRUGS  
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
 C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
 C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
2	4.37	C:\DATABASE\SLI.L COCAINE	000050-36-2	99

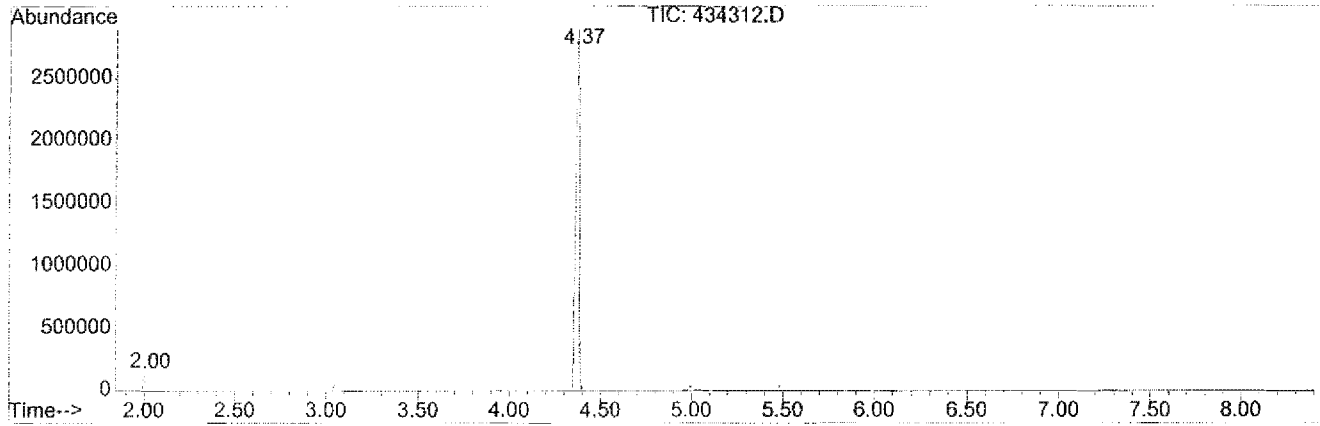




# Area Percent / Library Search Report

## Information from Data File:

File Name : E:\SYSTEM4\11\_07\_05\434312.D  
Operator : ASD  
Date Acquired : 7 Nov 2005 20:26  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 12  
AcquisitionMeth: DRUGS  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.002	127053	3.20	3.30
4.372	3847583	96.80	100.00

# Area Percent / Library Search Report

**Information from Data File:**

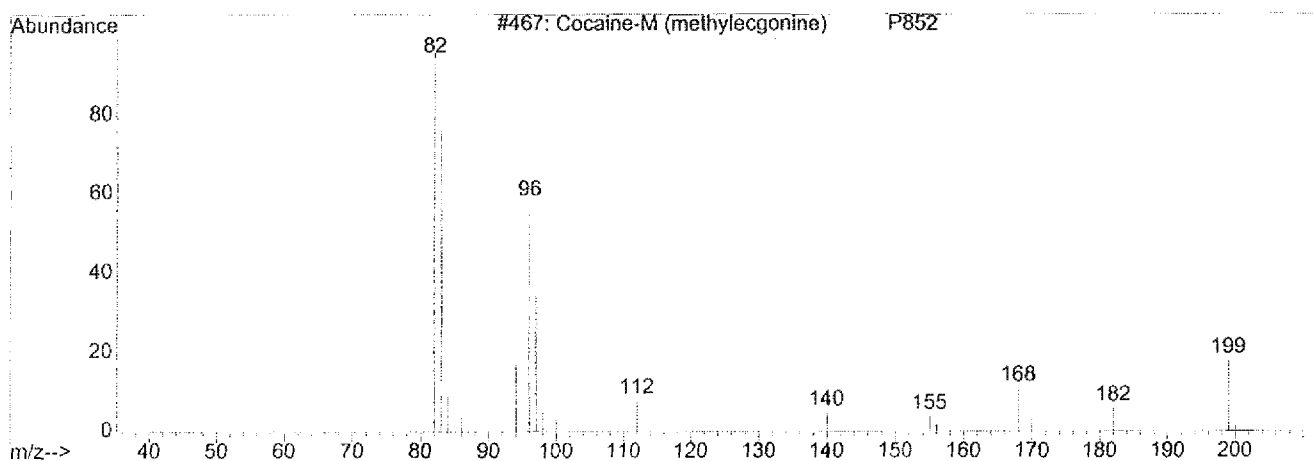
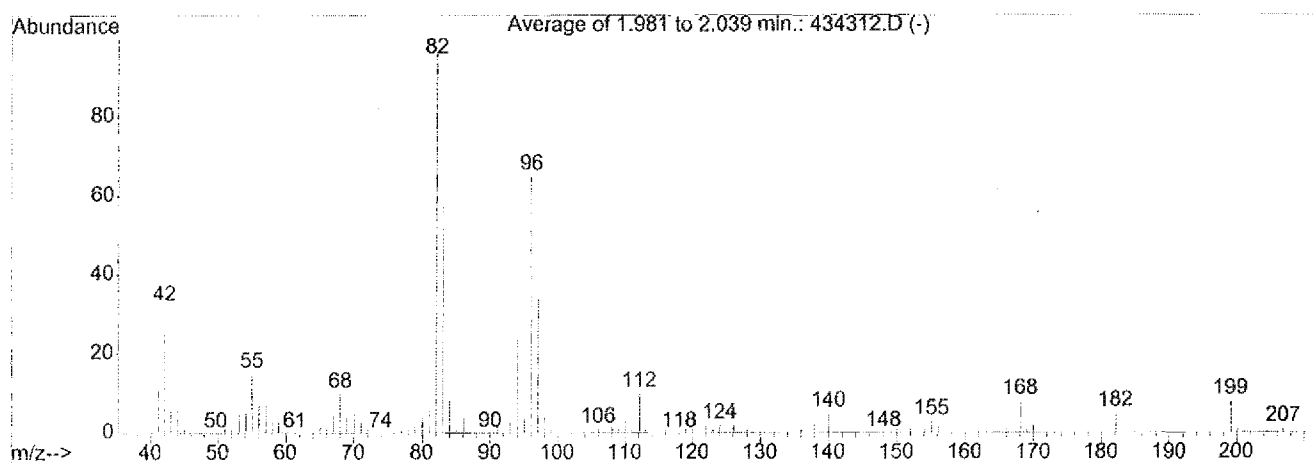
```

File Name       : E:\SYSTEM4\11_07_05\434312.D
Operator        : ASD
Date Acquired   : 7 Nov 2005 20:26
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 12
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	2.00	C:\DATABASE\PMW_TOX2.L		
		Cocaine-M (methylecgonine)	007143-09-1	91
		Cocaine-M (methylecgonine) AC	000000-00-0	9
		Selegiline	014611-51-9	9



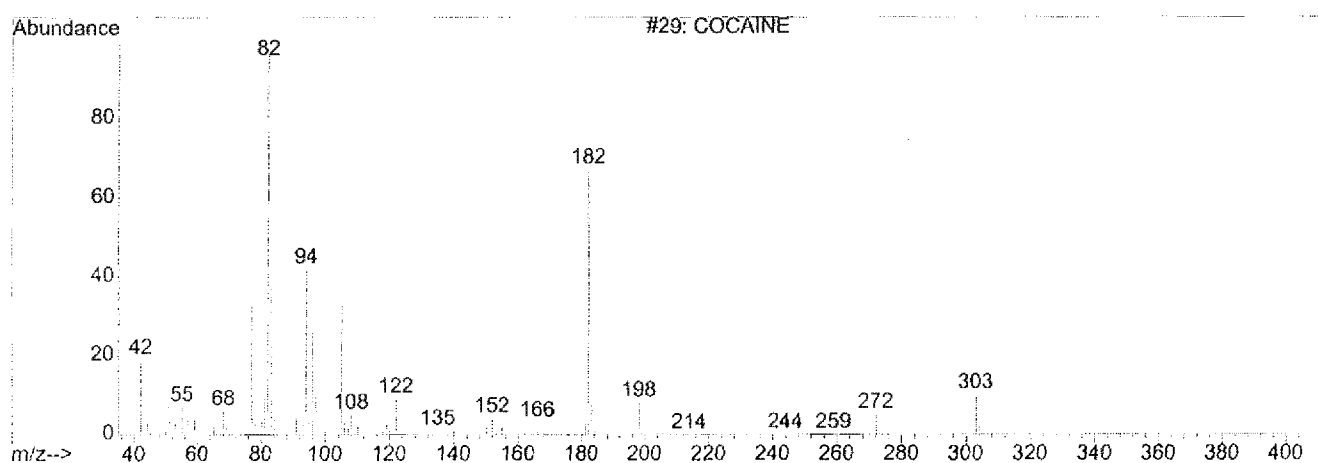
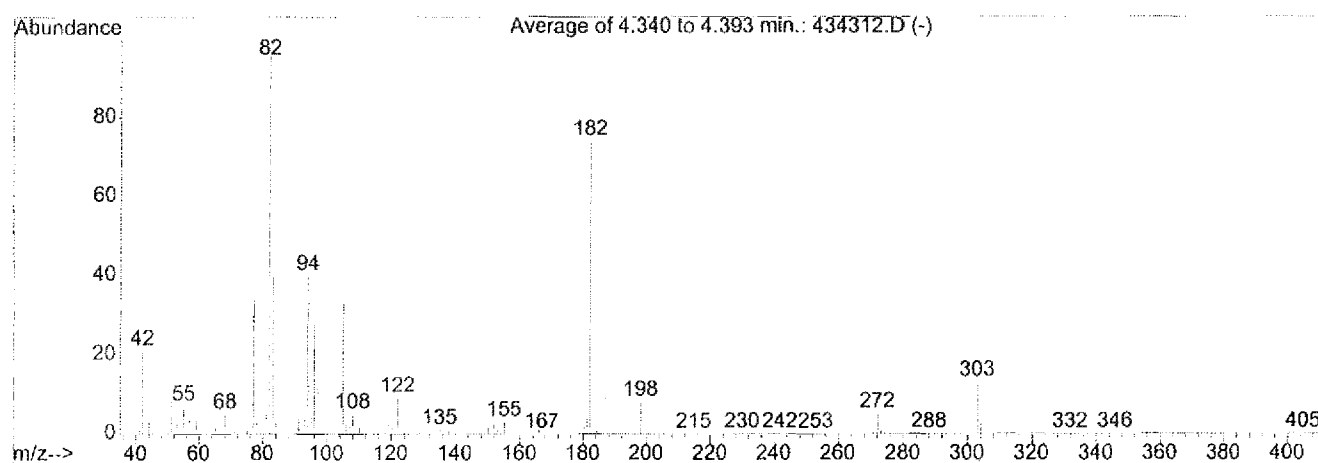
# Area Percent / Library Search Report

**Information from Data File:**

File Name : E:\SYSTEM4\11\_07\_05\434312.D  
 Operator : ASD  
 Date Acquired : 7 Nov 2005 20:26  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 12  
 AcquisitionMeth: DRUGS  
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
 C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
 C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
2	4.37	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



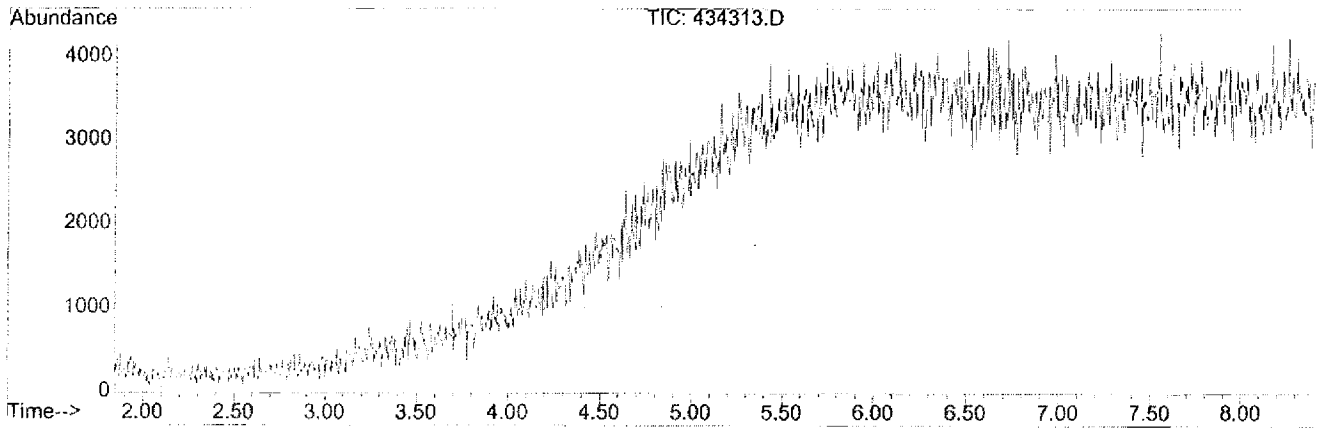
# Area Percent / Library Search Report

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## Information from Data File:

File Name : E:\SYSTEM4\11\_07\_05\434313.D  
Operator : ASD  
Date Acquired : 7 Nov 2005 20:38  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE

---



Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

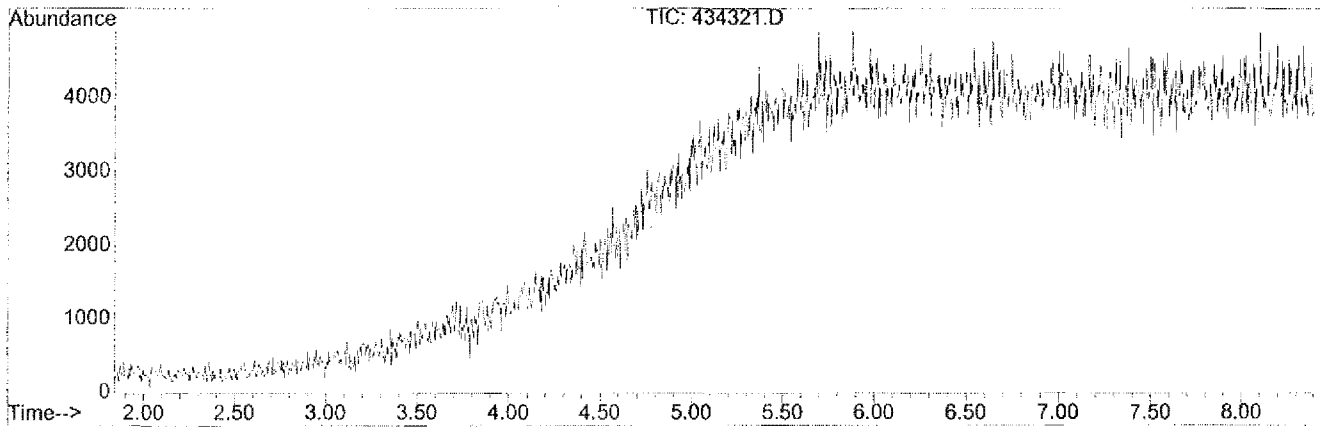
# Area Percent / Library Search Report

---

## Information from Data File:

File Name : E:\SYSTEM4\11\_07\_05\434321.D  
Operator : ASD  
Date Acquired : 7 Nov 2005 22:15  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE

---



Ret. Time	Area	Area %	Ratio %
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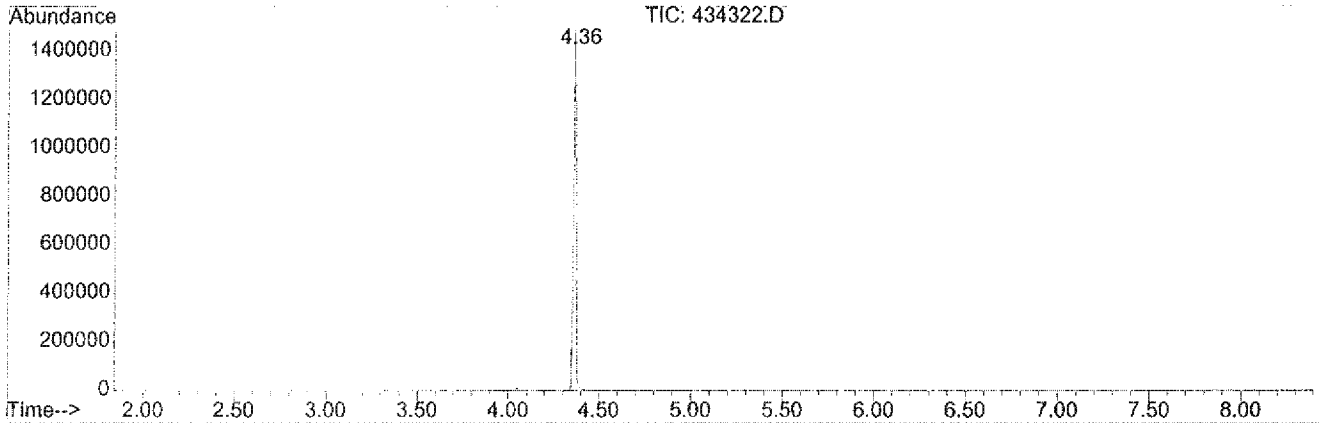
---

\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

Information from Data File:

File Name : E:\SYSTEM4\11\_07\_05\434322.D  
 Operator : ASD  
 Date Acquired : 7 Nov 2005 22:28  
 Sample Name : COCAINE STD  
 Submitted by :  
 Vial Number : 22  
 AcquisitionMeth: DRUGS  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.361	1360333	100.00	100.00

# Area Percent / Library Search Report

**Information from Data File:**

```

File Name       : E:\SYSTEM4\11_07_05\434322.D
Operator        : ASD
Date Acquired   : 7 Nov 2005 22:28
Sample Name     : COCAINE STD
Submitted by    :
Vial Number     : 22
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	4.36	C:\DATABASE\SLI.L COCAINE	000050-36-2	99

